

Claims

[c1] I claim as my invention:

1. A method for casting a cover on a golf ball precursor product, the method comprising:
dispensing a liquid thermosetting polyurethane prepolymer in a first mold half, the first mold half comprising a body having a wall and a perimeter perpendicular to the wall, the body having an internal hemispherical cavity, the perimeter having a plurality of recesses, each of the plurality of recesses in flow communication with the internal hemispherical cavity, each of the plurality of recesses separated from an adjacent recess by a land area of the perimeter;
placing a golf ball precursor product in the first mold half;
mating the first mold half with a second mold half, the second mold half comprising a body having a wall and a perimeter perpendicular to the wall, the body having an internal hemispherical cavity, the perimeter having a plurality of recesses, each of the plurality of recesses in flow communication with the internal hemispherical cavity, each of the plurality of recesses separated from an adjacent recess by a land area of the perimeter and each

of the plurality of recesses having a first end and a second end opposite the first end along a circumference of the internal hemispherical cavity; and
forming a cover on the golf ball precursor product with a continuous tab.

[c2] 2. The method according to claim 1 wherein each of the plurality of recesses of the first mold half has a concave opening to the internal hemispherical cavity and each of the plurality of recesses of the second mold half has a convex opening to the internal hemispherical cavity.

[c3] 3. The method according to claim 1 wherein the internal hemispherical cavity has a radius of 0.84 inch.

[c4] 4. The method according to claim 1 wherein the perimeter of the first mold half has from 20 to 40 recesses, and the perimeter of the second mold half has from 20 to 40 recesses.

[c5] 5. The method according to claim 1 wherein the perimeter of the first mold half has from 30 recesses, and the perimeter of the second mold half has 30 recesses.

[c6] 6. The method according to claim 1 wherein each of the plurality of recesses of the perimeter of the first mold half has a depth from the perimeter ranging from 0.010 inch to 0.040 inch, and each of the plurality of recesses

of the perimeter of the second mold half has a depth from the perimeter ranging from 0.010 inch to 0.040 inch.

- [c7] 7. The method according to claim 1 wherein the perimeter of the first mold half has a 360 degrees surface and the perimeter has a recess between 9 degrees intervals of the 360 degrees surface, and the perimeter of the second mold half has a 360 degrees surface and the perimeter has a recess between 9 degrees intervals of the 360 degrees surface.
- [c8] 8. The method according to claim 1 wherein each of the plurality of recesses of the perimeter of the first mold half has a length from the internal hemispherical cavity towards the end of the perimeter ranging from 0.010 inch to 0.040 inch, and each of the plurality of recesses of the perimeter of the second mold half has a a length from the internal hemispherical cavity towards the end of the perimeter ranging from 0.010 inch to 0.040 inch.
- [c9] 9. The method according to claim 1 wherein the mold is without gates.